

YURI OKSUZIAN

Curriculum Vitae

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Education

2009: Ph.D. Physics, University of Florida, Gainesville, FL
Dissertation: "Search for resonant production of top antitop pairs decaying into multi-jets at the collider detector at Fermilab"
Advisor: Prof. J.Konigsberg

2001: B.S. Physics, Tbilisi State University, Tbilisi, Georgia

Research Experience

Research Assistant 08/2005–present
University of Florida High Energy Group Physics, CDF experiment.

- *Search for non-standard model $t\bar{t}$ resonance states in the all jets final state channel*
- Examine the invariant mass spectrum of $t\bar{t}$ pairs in the Run II CDF data from $p\bar{p}$ collisions at Tevatron. Use an event reconstruction technique that exploits production and decay information to increase the sensitivity for discovery. First search in all jets final state.
- *Operations of the Cherenkov Luminosity Counter (CLC) in Run II*
- Senior project leader and pager carrier, testing and installation of the hardware components, studies on the PMT lifetime and gain stability, support and development of the CLC online software and hardware, development and implementation of high luminosity measurement scenario.
- Offline software for the Cherenkov Luminosity Counter: monitoring and support of online luminosity measurement at CDF, upgrade of the amplitude and pedestal calibration procedure, development of tools to monitor CLC PMT gain stability, development and implementation of the automatic CLC amplitude calibration procedure.
- Service: operated Data Acquisition System (DAQ), performed online monitoring of the CDF high voltage system status, monitored data quality to maximize the efficiency of data taking.

Honors and Awards

Third prize, International Young Physicist Tournament, Cheb, Czech Republic, 1997
Recipient of University of Florida Fellowship 2003-2007

Teaching Experience

Teaching Assistant, Department of Physics, University of Florida, 2004–2005

Skills

Computer Skills: Linux and Windows OS, Mac OS, C++, Python, SQL, database support, Unix shell scripts, HTML, Latex, Microsoft Office.

Analysis Software: Pythia, Herwig, ROOT, CDF computing infrastructure.

Languages: English, Georgian, Russian

Qualities: Motivated, hardworking, organized, very collegial

Conference and Seminar Presentations

- “Search for non-standard model top antitop resonance production in the all-hadronic channel at CDF”

APS 2008 April Meeting, St. Louis, Missouri, April 14, 2008

APS 2009 April Meeting, Denver, Colorado, May 5, 2009

Multiple internal CDF collaboration Top group presentations

- “CDF Luminosity Studies”

Multiple presentation on joint(CDF, D0, Accelerator Division) Luminosity Meeting, FNAL, Batavia, IL.

Selected Publications

“Top quark mass measurement with $t\bar{t}$ matrix element from all hadronic channel in $p\bar{p}$ collisions”, Phys. Rev. D 79, 072010 (2009)

“ Topping off a search for new particles”, Fermilab Result of the Week, July 02, 2009

Co-author of 141 journal publications.

CDF Internal Notes

“Search for ttbar resonant production in All Jets Events”, CDF Note 9737, May 2009

“Measurement of top quark mass in all hadronic events using FlaME”, CDF Note 8544, Oct 2006

Summer Schools and conferences Attended

The Hadron Collider Physics Summer School

Fermilab, August 9-18, 2006

The CTEQ Summer School

Madison WI, June 22-30, 2004

Madison WI, June 24 - July 2, 2009

Hadron Collider Physics Symposium

Galena, IL, May 24-31 2008

Phenomenology Symposium

Madison WI, May 10-12 2010

Membership

American Physical Society (APS)

Collider Detector at FNAL (CDF)